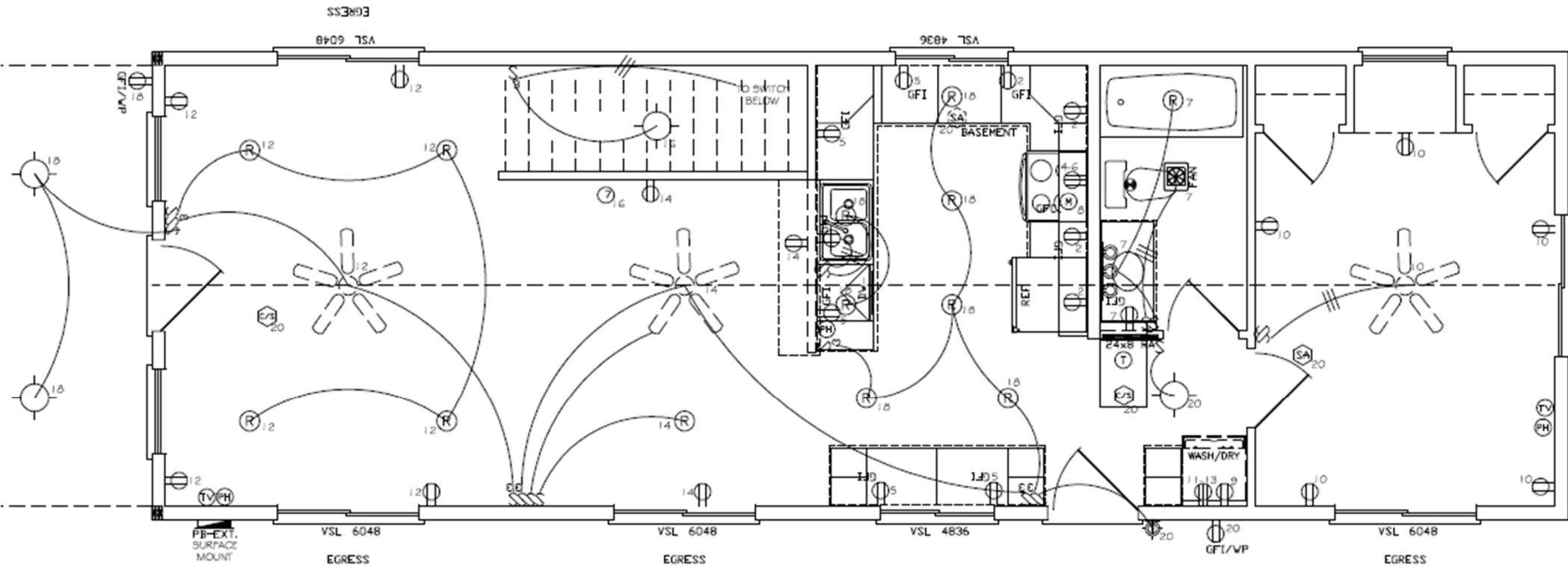


WELCOME TO: ARCHITECTURE BUILDING TECHNOLOGY





Electrical Plan

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE		TV & PHONE
	SWITCHED DUPLEX RECEPTACLE		CARBON/SMOKE DETECTOR
	GROUND FAULT RECEPTACLE		SMOKE DETECTOR
	WATER PROOF GFI RECEPTACLE		CHIMES
	240 RECEPTACLE (RANGE/DRYER)		DOOR BELL
	DUPLEX FLOOR RECEPTACLE		PANEL BOX
	CLOSET LIGHT		3 CONDUCTOR WIRE
	DINING, NOOK, HALL LIGHT		AIR CONDITIONER DISCONNECT
	FOYER LIGHT		AIR CONDITIONER CONDENSING UNIT
	PENDENT LIGHT		BASEMENT PULL CHORD FIXTURE
	RECESSED FIXTURE		J BOX
	RECESSED EYEBALL FIXTURE		THERMOSTAT
	BATH FAN/LIGHT COMBO		CEILING FAN (WHEN DASHED WIRE AND BRACE BUT INSTALL STANDARD LIGHT FOR THE ROOM)
	WALL MOUNT FIXTURE		
	WALL FLUOR. FIXT.		2-GLOBE VANITY LIGHT
	FLUORESCENT FIXTURE		3-GLOBE VANITY LIGHT
	SINGLE POLE SWITCHED		DINING ROOM CHANDELIER
	MOTION SENSOR SWITCH		
	THREE WAY SWITCH		
	FOUR WAY SWITCH		

ELECTRICAL NOTES

- ⑩ WIRE FOR MICROWAVE
- ⑦ GFI RECEPITS IN BASEMENT

WASHER AND DRYER RECEPITS @ 36' A.F.F.

ELECTRICAL BOXES SHALL BE SIZED PER APPLICABLE N.E.C.

* INDICATES LOCATION PER CUSTOMER

PANEL SCHEDULE 200 AMP.

CIRCUIT	WIRE SIZE	CIRCUIT DESCRIPTION	CIRCUIT	WIRE SIZE	CIRCUIT DESCRIPTION		
* 1	1P20A	12-2	DISHWASHER	* 2	1P20A	12-2	KIT A
* 3	1P20A	12-2	DISPOSAL	4	2P40A	8-3/WG	RANGE
* 5	1P20A	12-2	KIT B	* 6			
* 7	1P20A	12-2	BATH #1	* 8	1P20A	12-2	MICROWAVE
* 9	1P20A	12-2	WASHER	* 10	1P15A	14-2	BEDROOM #1
11	2P30A	10-3/WG	DRYER	* 12	1P15A	14-2	LIVING ROOM
13				* 14	1P20A	12-2	DINING ROOM
* 15	1P15A	14-2	FURNACE	* 16	1P15A	14-2	BASEMENT
17				* 18	1P15A	14-2	GEN. LIGHTS
19				* 20	1P15A	14-2	GEN. LIGHTS & SA
21				22			
23				24			
25				26			
27				28			
29				30			
31				32			
33				34			
35				36			
37				38			
39			SPARE	40			SPARE
41	W/225 AMP	PANEL BOX ONLY	42	W/225 AMP	PANEL BOX ONLY		















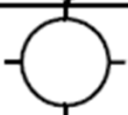




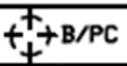





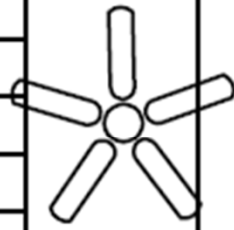









* ALL GENERAL CIRCUITS ARE AFCI PROTECTED BREAKERS

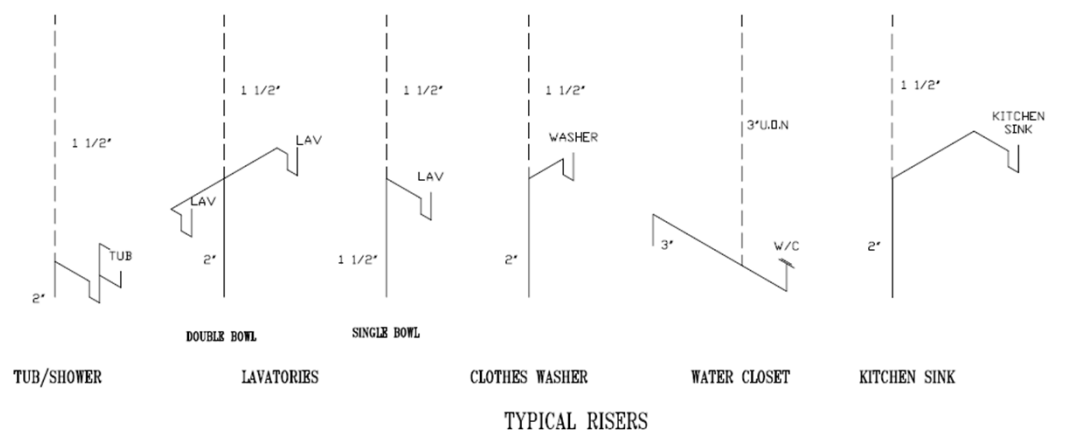
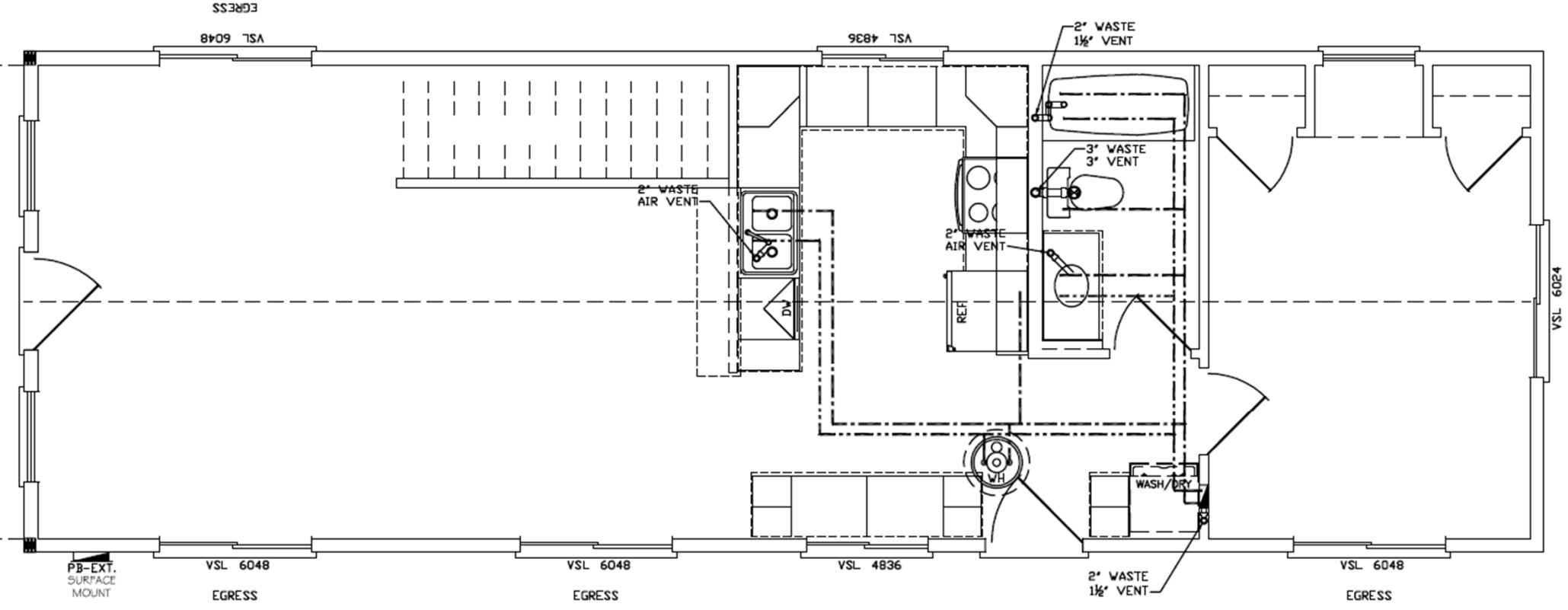
GENERAL ELECTRICAL NOTES:

1. CABLE TYPE: NON-METALLIC SHEATHED; CONDUCTOR TYPE: COPPER, WITH GROUND
2. SERVICE AS PER PANEL SCHEDULE.
3. GROUND FAULT: USED PER 2017 NEC
4. WIRE SIZE: 18-2 FOR CHIMES AND DOOR PUSH BUTTON
12-2 FOR APPLIANCE CIRCUITS
14-2 FOR GENERAL RECEPTACLES AND LIGHTING
12-3 USED FOR 3-WAY SWITCHES AND SMOKE ALARMS
10-3/WG USED FOR CLOTHES DRYERS
14-2 USED FOR WATER HEATER
8-3/WG USED FOR ELECTRIC RANGE
HEATING AND COOLING EQUIPMENT AND SPECIALIZED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS.
5. MAIN PANEL: 200 AMP
6. MAIN PROTECTIVE DEVICE: 200 AMP 2 POLE BREAKERS
7. TESTING PROCEDURE: PER NEC 2017
8. BRANCH PROTECTIVE DEVICE: PER PANEL SCHEDULE.
9. FIXTURES ABOVE TUB/SHOWER SHALL BE MARKED SUITABLE FOR DAMP LOCATIONS.
10. ALL GENERAL CIRCUITS ARE AFCI PROTECTED
11. ALL RECEPTACLES TO BE TAMPER RESISTANT.

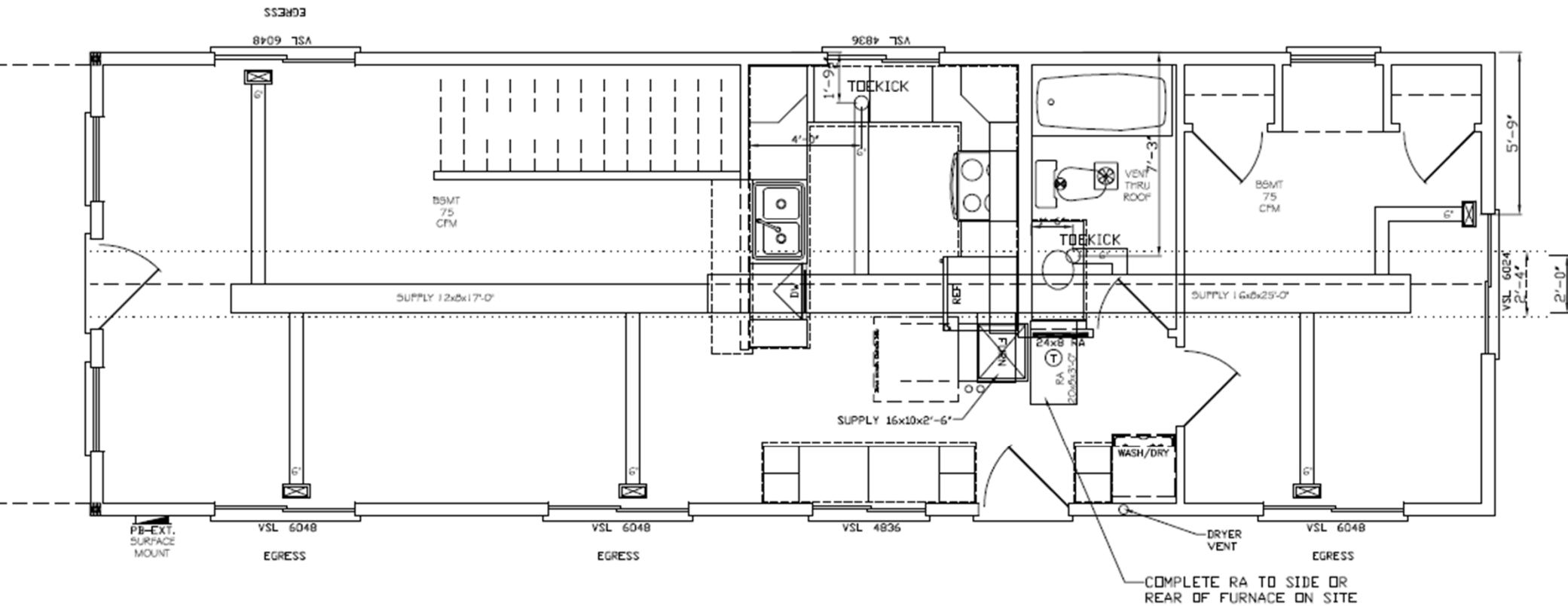
Electrical Schedules

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
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	THREE WAY SWITCH		DINING ROOM CHANDELIER
	FOUR WAY SWITCH		



Plumbing Diagrams



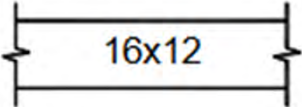
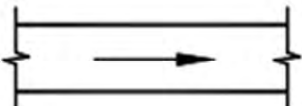
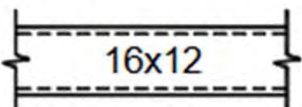
Supply air symbol

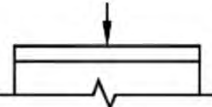
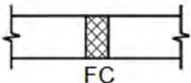
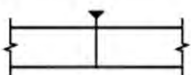
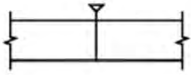
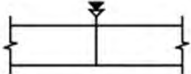


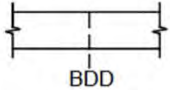
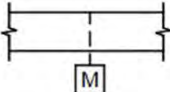
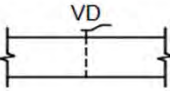
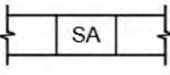
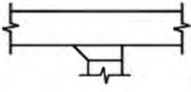
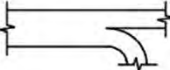
Return air symbol

HVAC PLAN

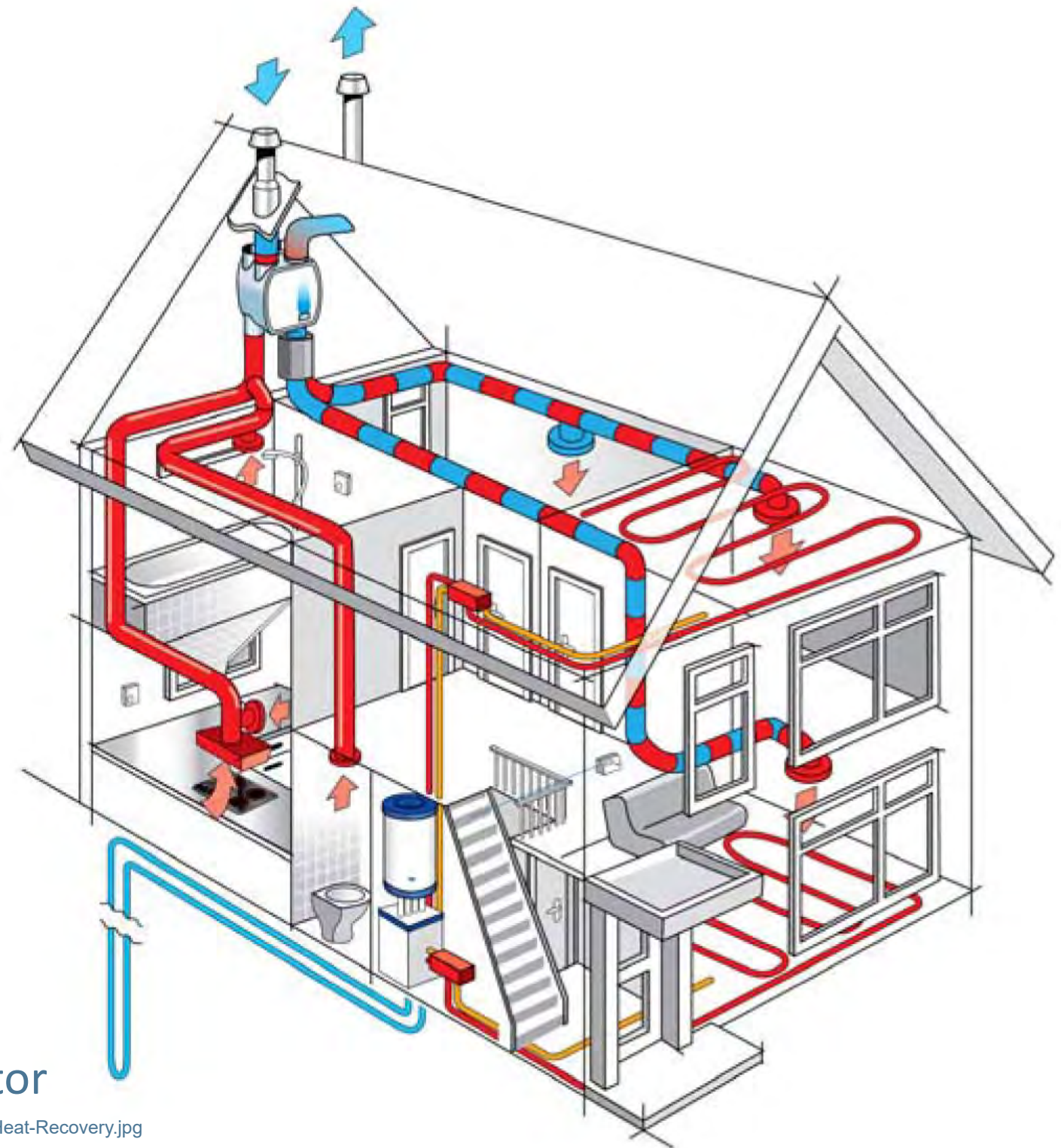
Heating, Ventilating, Air-Conditioning, (and Refrigerating Engineering)

	Sheet metal duct (1st figure, side shown; 2nd figure, other side)
	Direction of flow
	Internally insulated sheet metal duct

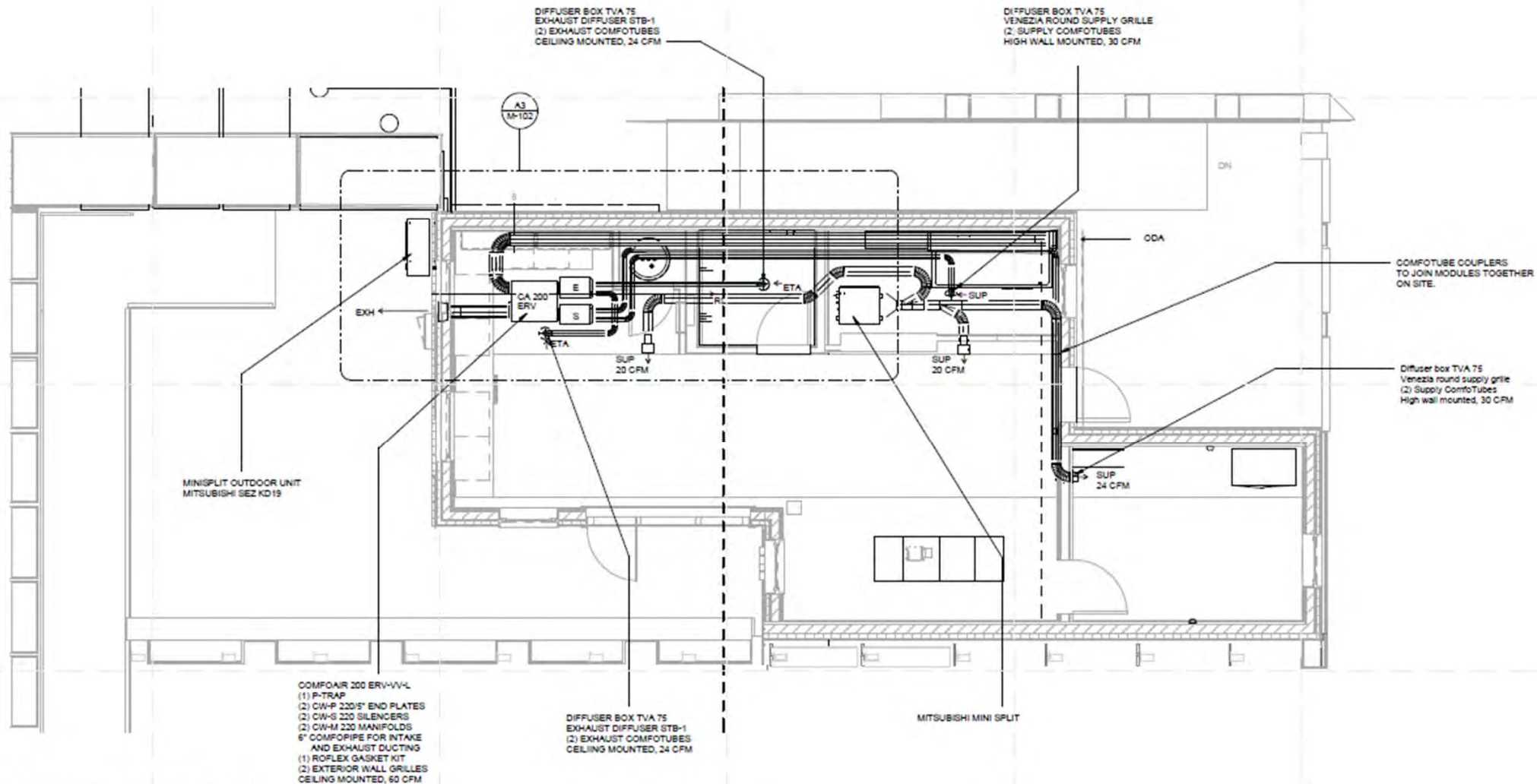
	Louvers & screen
	Flex connection
	Fire damper (vertical)
	Smoke damper (vertical)
	Smoke damper and fire damper (vertical)

	Back draft damper
	Motorized damper
	Volume damper
	Sound attenuator
	Standard branch for supply & return (no splitter)
	Wye junction

HVAC PLAN Heating, Ventilating, Air-Conditioning, (and Refrigerating Engineering)



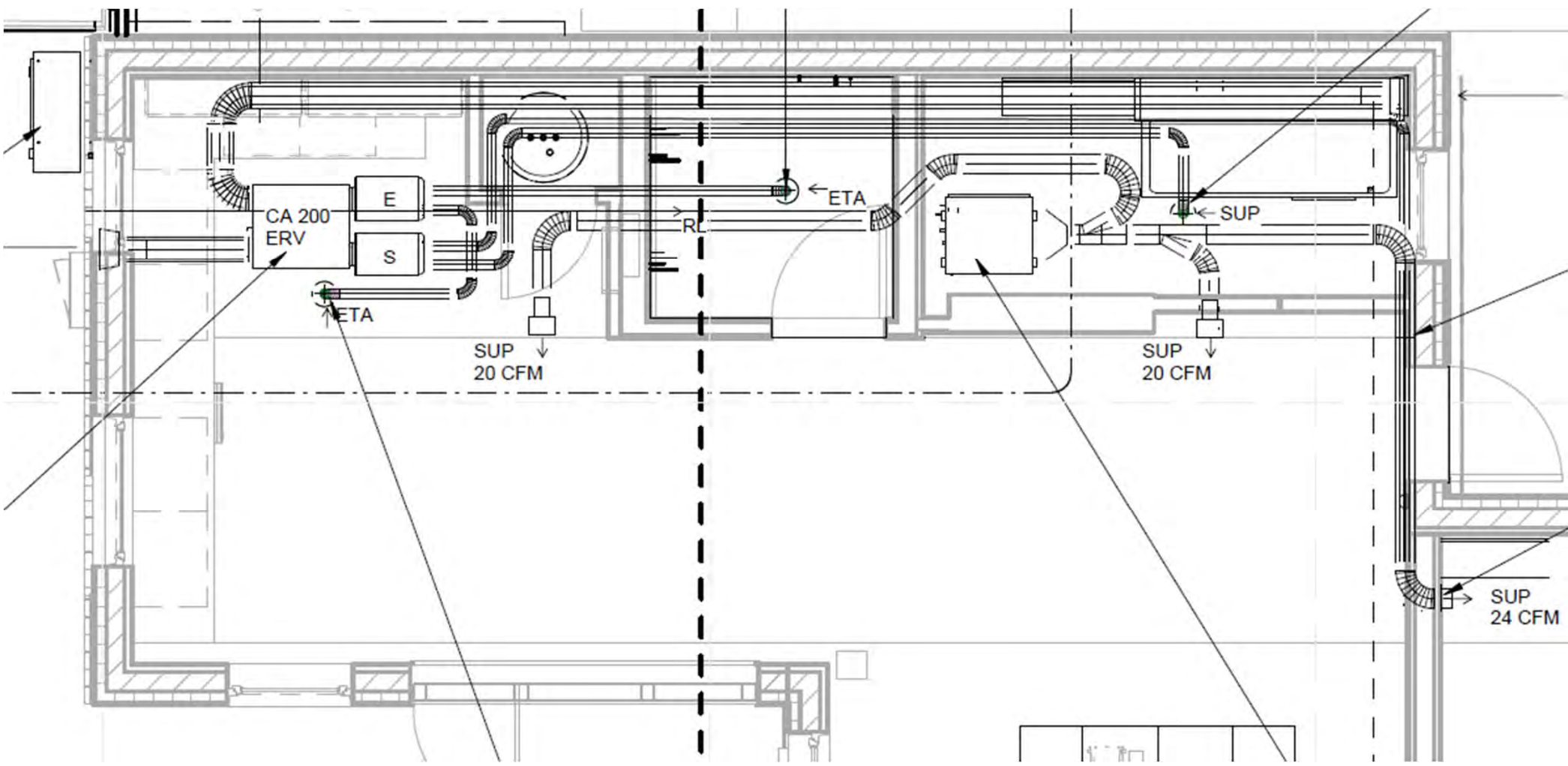
HRV, Heat Recovery Ventilator



A1 MECHANICAL PLAN
1/4" = 1'-0"

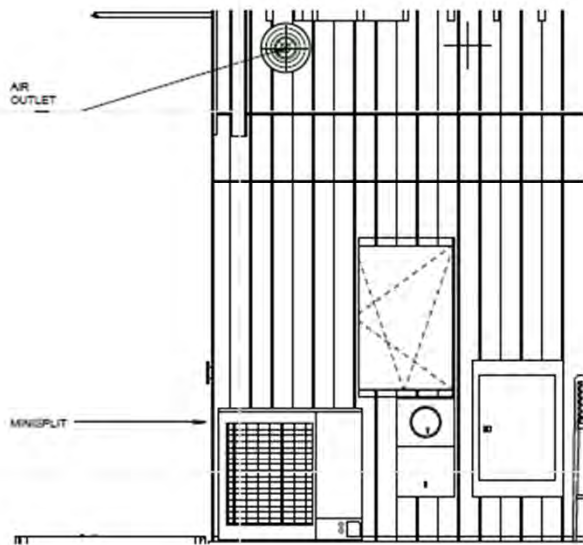


HVAC PLAN Heating, Ventilating, Air-Conditioning, (and Refrigerating Engineering)

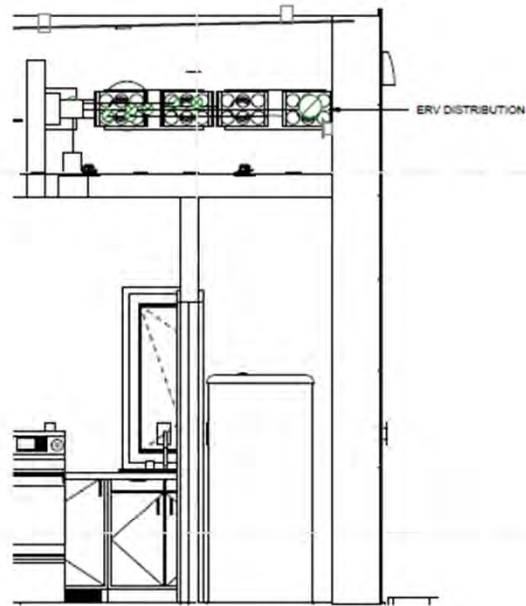


HRV, Heat Recovery Ventilator

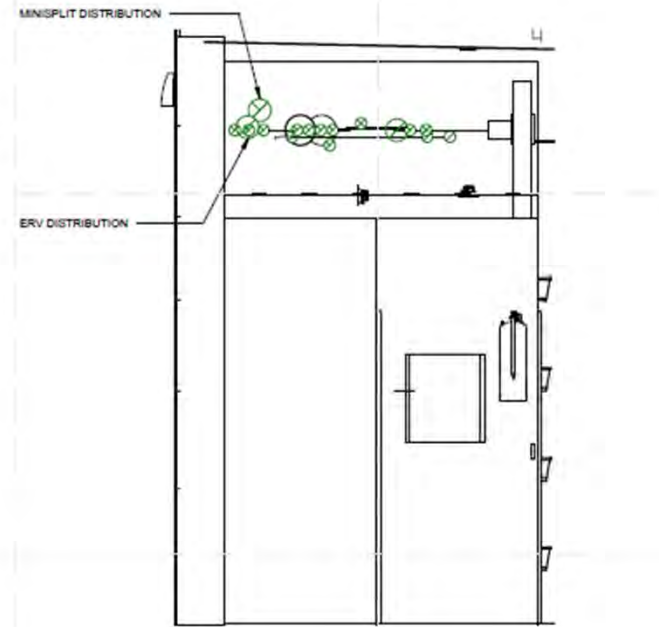
US Department of Energy. (n.d.). NYC City Tech Construction Drawings. Retrieved from <https://www.solardecathlon.gov/2015/assets/pdfs/ny-city-tech-drawings.pdf>



C1 ELEVATION 4 - MECHANICAL EXTERIOR
 1/2" = 1'-0"
 0 2 4 8'

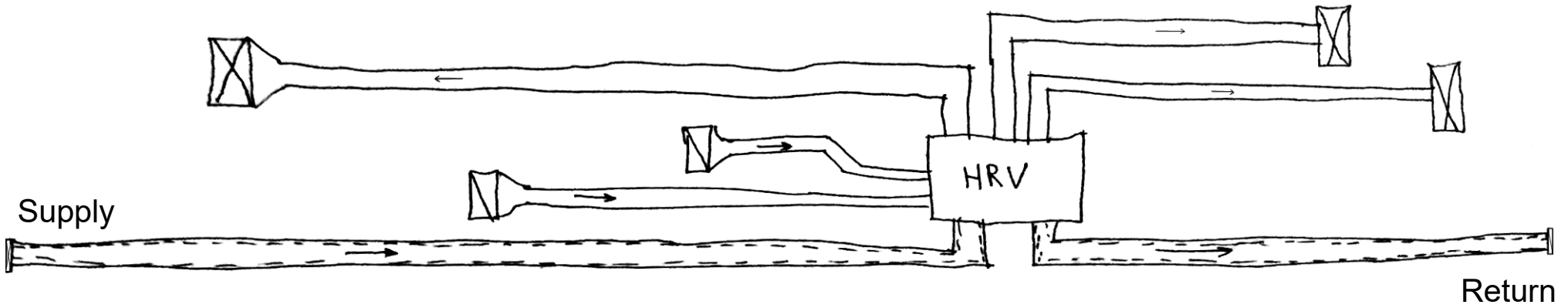


C3 ELEVATION 3 - MECH PLENUM
 1/2" = 1'-0"
 0 2 4 8'

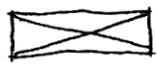
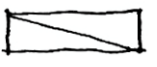
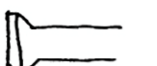



C5 ELEVATION 2 - MECH PLENUM
 1/2" = 1'-0"
 0 2 4 8'

HVAC PLAN Heating, Ventilating, Air-Conditioning, (and Refrigerating Engineering)



KEY

-  Supply
-  Return
-  Duct
-  Insulated duct

Sample of plan overlay CAD layer for simple ERV diagram